User Manual

Model: FI8910E

Indoor Pan/Tilt PoE Camera

Color: Black

Color: White

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1 Overviews

FOSCAM FI8910E is an integrated IP Camera solution with 802.3af compliant POE based on the TCP/IP standard. It combines a high quality digital video camera, with a powerful web server, to bring clear video to your desktop from anywhere on your local network or the Internet.

The basic function of IPCAM is transmitting remote video on the IP network. The high quality video image can be transmitted with 30fps speed on the LAN/WAN by using MJPEG hardware compression technology.

With flexible 300-degree pan and 120-degree tilt, FI8910E gives users more comprehensive control over a monitored site. FI8910E supports IR-CUT, when light conditions turns poor, the IR cut filter will be automatically removed to accept IR illumination. Meanwhile, the camera switches itself automatically from color to black and white, assuring optimal image quality at all times.

The IPCAM is based on the TCP/IP standard. There is a WEB server inside which could support Internet Explore. Therefore the management and maintenance of your device is simplified by using the network to achieve the remote configuration, start-up and to upgrade the firmware. Controlling the IPCAM and managing images is simplified by using the provided web interface across the network utilizing wired connectivity.

FOSCAM provides Phone APPs for Android and iPhone users, please search “Foscam ip cam viewer” and install it through APP Store, then you can view your camera directly as a computer.

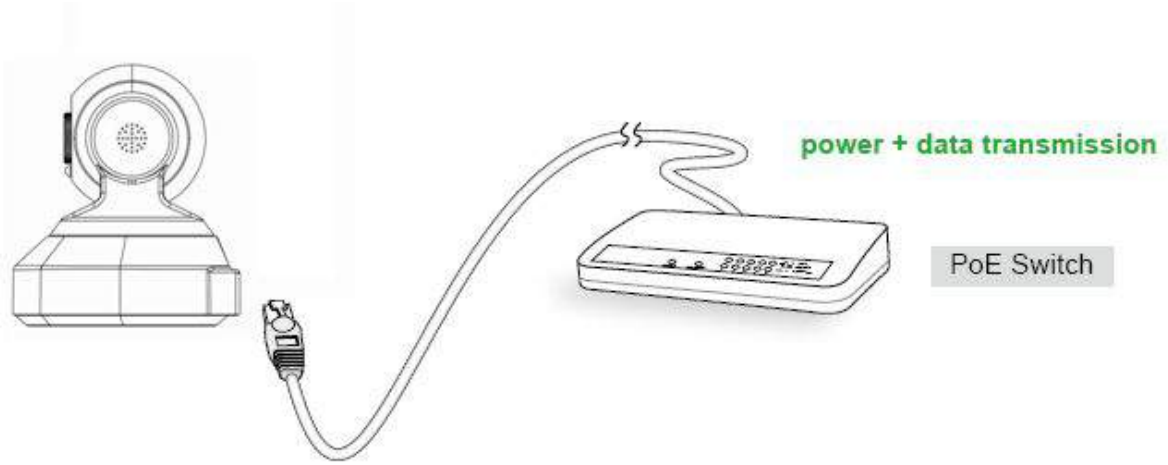
1.1 Key Features

- Powerful high-speed video protocol processor
- High Definition Color CMOS Sensor
- 300K Pixels
- IR night vision (Range: 8m)
- Pan 300 degree, tilt 120 degree
- Optimized MJPEG video compression for transmission
- Multi-level users’ management and passwords definition
- Embedded Web Server for users to visit by IE
- POE compliant with POE standards IEEE 802.3af
- Supports IR_CUT and the filter change automatically
- Embedded FOSCAM domain name
- Supports Dynamic IP (DDNS) and UPnP LAN and Internet (ADSL, Cable Modem)
- Motion and Sound detection activates alarm
- Supports image snapshot
- Supports multiple network protocols: HTTP/TCP/IP/UDP/STMP/DDNS/SNTP/DHCP/FTP
- Supports Daylight Saving Time

- Supports MSN
- Supports Gmail as sender on mail service settings
- Supports audio on Firefox, Google Chrome and Safari
- Providing Phone APPs for Android and iPhone users
- Providing Central Management Software to manage or monitor multi-cameras

1.2 PoE (Power over Ethernet)

The Network Camera is POE-compliant, allowing transmission of power and data via a single Ethernet cable. Such as the following picture: connect the Network Camera to a PoE-enabled router/ switch via Ethernet cable.



1.3 Read Before Use

Please first verify that all contents received are complete according to the Package Contents listed below. Before the Network Camera is installed, please carefully read and follow the instructions in the Quick Installation Guide to avoid damage due to faulty assembly and installation. This also ensures the product is used properly as intended.

1.4 Packing Contents

● IPCAM×1	● CD×1
● Network Cable×1	● Quick Installation Guide×1
● DC Power Supply×1	● Warranty Card×1
● Mounting bracket×1(option)	

1.5 Physical Description

Front Panel

Figure 1.1

1 Infrared LED: 11 IR LEDs

2 LENS: CMOS sensor with fixed focus lens

3 Speaker: Built-in speaker

4 Microphone: Built-in microphone

Back View

Figure 1.2

LAN: RJ-45/10-100 Base T
Power: DC 5V/2A Power supply
Network Light: The LED will blink when power and network cable are plugged in
Power Light: If the power adapter works well, the light will turn on
Audio Input: This jack is used to plug an external microphone
Audio Output: This jack is used to plug an external speaker

Bottom View

There are up to two labels located on the body of the camera; this is an important feature of original Foscam cameras. If your camera does not have labels as shown in Figure 1.3 ,it may be

a clone one. Cloned Foscam cameras can not use original firmware and are not eligible for warranty or technical services.

Figure 1.3

Reset button: Press and hold down the RESET BUTTON for 10 seconds. when released the IP camera will be reset back to factory default settings. You must power on the camera before reset.

2 Surveillance Software GUI

Please refer to the Quick Installation Guide if you install the camera at first time. After finishing quick installation, you can take time to learn the operation of the software.

2.1 Login Window

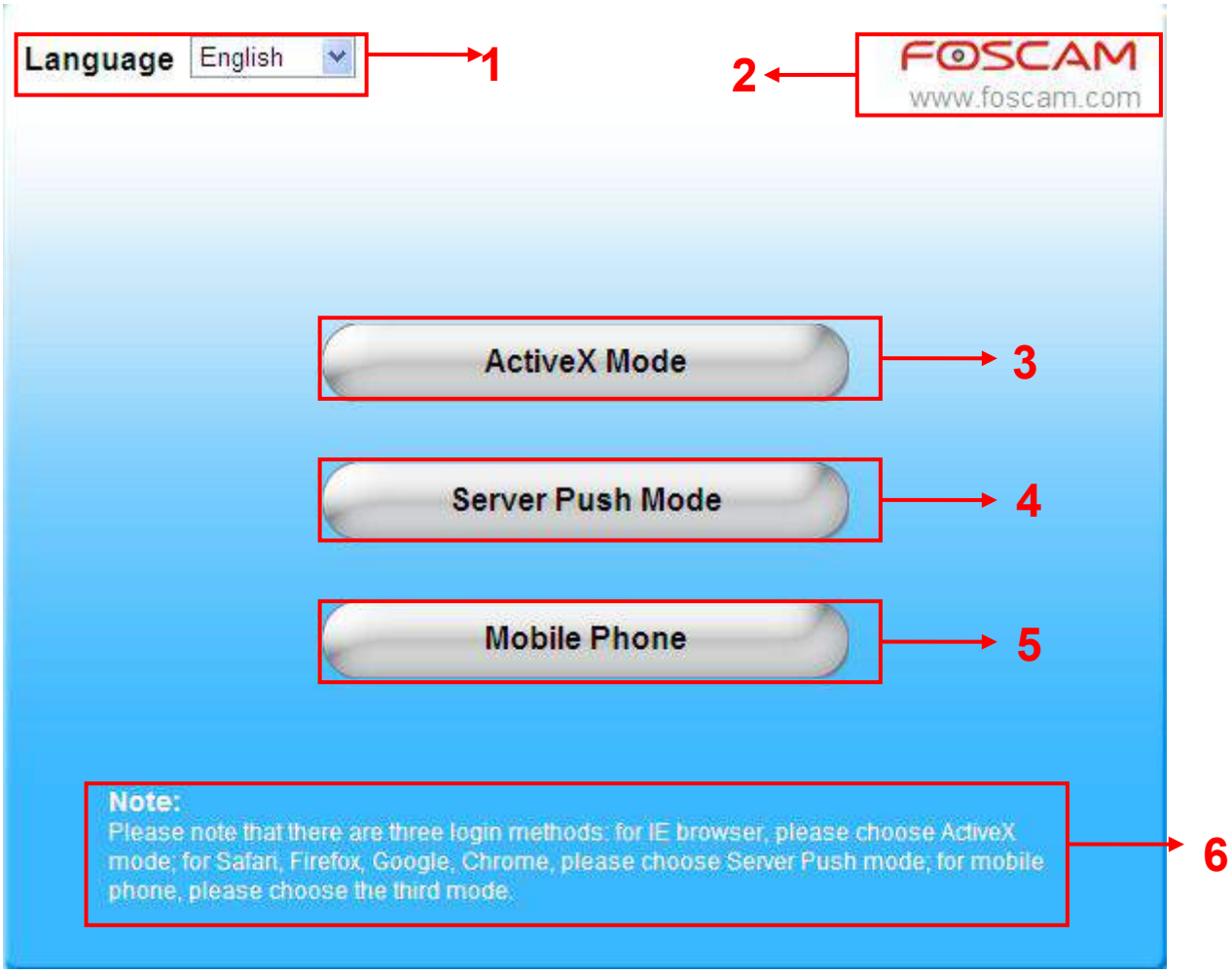


Figure 2.1

Please check the login window above, it was divided to 6 sections from no. 1 to 6.

Section1 Select Language

FOSCAM camera supports up to multi-languages, such as English, Spanish, Deutsch and so on. You can select the language you need via pull down the dropdown toolbar and click on the language to switch.

Section2 FOSCAM Website Link

There is an access link to Foscam website homepage, if you need tech support you can contact Foscam directly.

Section3 ActiveX Mode

If your PC is windows based OS, such as Windows XP, Windows7, Windows Vista and you are using IE-based browsers like IE6, IE7, IE8, please choose IE ActiveX Mode login mode.

Section4 Server Push Mode

If you are using non-IE based browser, like Firefox, Safari, Google Chrome please choose

Server Push Mode mode.

Section5 Mobile Phone

If you are using the Mobile to access the camera, here you need to select Mobile Phone login mode.

Section6 Note

Note that when you login the camera, please select the corresponding login mode.

2.2 Surveillance Window

Select the ActiveX mode and you will enter the surveillance window.

Figure 2.2

Section1 Device Name

Default device name is Anonymous. You can define a name for your camera as you like (Please go to chapter 3.1 and read how to set it)

Section2 Multi-Device Window

The firmware inside the camera supports up to maximum of 9 cameras being monitoring at the same time. You can add other cameras in multi-device setting (read chapter 3.5).

. Figure 2.3

Section3 Image Parameters Settings

OSD

OSD is used to add timestamp on the video. There are five text colors to choose from: Black, red, yellow, white, blue.

Add OSD on record

Select this option if you want to add a timestamp to recordings.

Resolution

1) 320x240-------QVGA
2) 640x480-------VGA

There are two resolutions, the bigger one (VGA) is 640x480 pixels, and the smaller one (QVGA) is 320x240 pixels. The bigger the resolution, the better of the image quality is, but the lower the frame rate is. If you are accessing the camera via internet and want to get more fluent video streaming, please select resolution QVGA 320x240.

Mode

1) 50HZ ---------Indoor surveillance (Region: Europe, China)
2) 60HZ ---------Indoor surveillance (Region: USA, Canada)
3) Outdoor-------Outdoor surveillance (Region: All over the world)

There are three options within the menu of Mode: 50HZ, 60HZ and Outdoor. It depends on the frequency of the electricity and surveillance model (indoors & outdoor). Please choose outdoor mode, when the camera was installed outside.

Fps

1) Max---------- Maximum frame rate
2) 20fps, 15fps, 10fps, 5fps,4fps,3fps,2fps,1fps, 5fps, 1fps ,1/2fps,1/3fps,1/4fps,1/5fps------- customized frame rate

You can choose option within the menu of Fps to adjust the frame rate. It is often used in LAN network when you want to lower the frame rate, so that you can save more bandwidth.

Brightness

Default parameter is 6, you can adjust the brightness of the image by clicking plus or minus button.

Contrast

Default parameter is 4, you can adjust the contrast of the image by clicking plus or minus button.

Preset/Go

1) Preset----------Support 8 preset position, which is considered enough for DIY home & small business surveillance market

2) Set---------- Click Set to save the position you need the camera to remember

3) Go---------- Click Go to make the camera move the preset position

4) Number button from 1 to 8--------You can click the number button with preset position, and the camera will go to the preset position.

How to do preset position?

We can start preset settings from position 1.

Firstly, select no. 1 within the menu of Preset on the panel.

Secondly, move the camera and stop at a place where you want make preset position.

Thirdly, click set button to save it as position 1 and you have done preset of position 1.

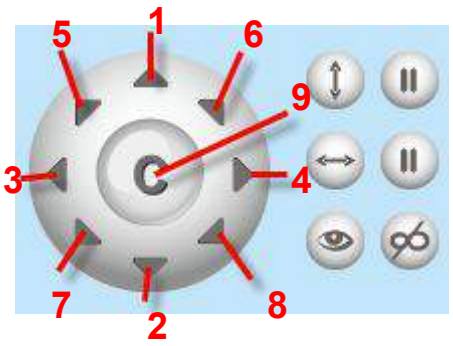
After that, you can select no. 2 within the menu of Preset on the panel, and move the camera and stop at another place, and set as preset position 2. You can do all the 8 preset positions with this method.

If you want to see the preset position you have set, such as the position 1, only select the set no.1 ,and click go button, the camera will go to position no.1.

Flip & Mirror

You can flip the image by enabling Flip button, or mirror the image by enabling Mirror button.

Section4 Pan/Tilt Control



1------Up control button, 2------Down control button,

3------Left control button, 4------Right control button,

5----- Up-Left control button 6----- Up-Right control button

7----- Down-Left control button 8----- Down-Right control button

9------Go to center

: Click this icon; camera will rotate up and down. Click to stop.

: Click this icon; camera will rotate left and right. Click to stop.

: Click this icon, all the IR lights will turn on. Click to turn off them.

Section5 Device Management

Device Management ------Path to Administrator Control Panel, Click it, and it will lead to Administrator Control Panel.

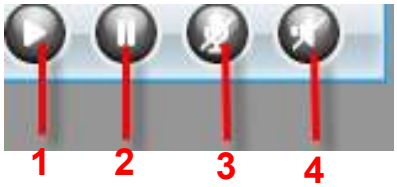
Section6 Record & Snapshot & Full Screen Buttons

1------Record Button Click it and it pop-up a path-setting window, you can select the storage path and the record file name. At the same time the record icon changes to ,, Click it again and stop recording.

2------Snapshot Click it to make snapshot and it pop-up a window which picture you snapshot, right click in the window and save the picture to anywhere you want.

3------Full Screen Click it to make full-screen, or you can double click the surveillance screen to make full-screen.

Section7 Play/Stop/ Talk and Audio Buttons



1------Play Click it to play the video of the camera

2------Stop Click it to stop the video of the camera

3------ Talk Button Click the talk icon , and the icon changes to , then talk through your computer's microphone which will transmit through the camera's speaker**.** People will hear your talking through the camera's built-in speaker. Click the icon again and stop talking.

4------Audio Button Click the audio icon , and it changes to , then you will hear sound captured by the camera's built-in microphone. You may need to plug in earphones or enable the computer speakers to hear from the camera's microphone.

Onscreen Mouse Control

Double click right mouse on the surveillance window, then left click on the screen to indicate the camera move direction you prefer, press the left mouse and the camera' Len will move to the corresponding direction.. Double click right mouse again, cancel onscreen mouse control.

For example, double click right mouse, then left click on the up corner of the screen, you can see the arrow, press the left mouse, and the camera's lens will moving towards the up direction. Double click right mouse again, cancel onscreen mouse control.

Figure 2.4

NOTE:

Record and multi-device function are controlled by ActiveX controller, therefore Firefox or Google Chrome, Safari browsers will not allow these functions.

For Firefox, Google Chrome, Safari, you should select the Server Push Mode and you can see the following screen:

Figure 2.5

For the first time using audio, you need to download and install VLC plug-in, Click Audio, and you can see the download website.

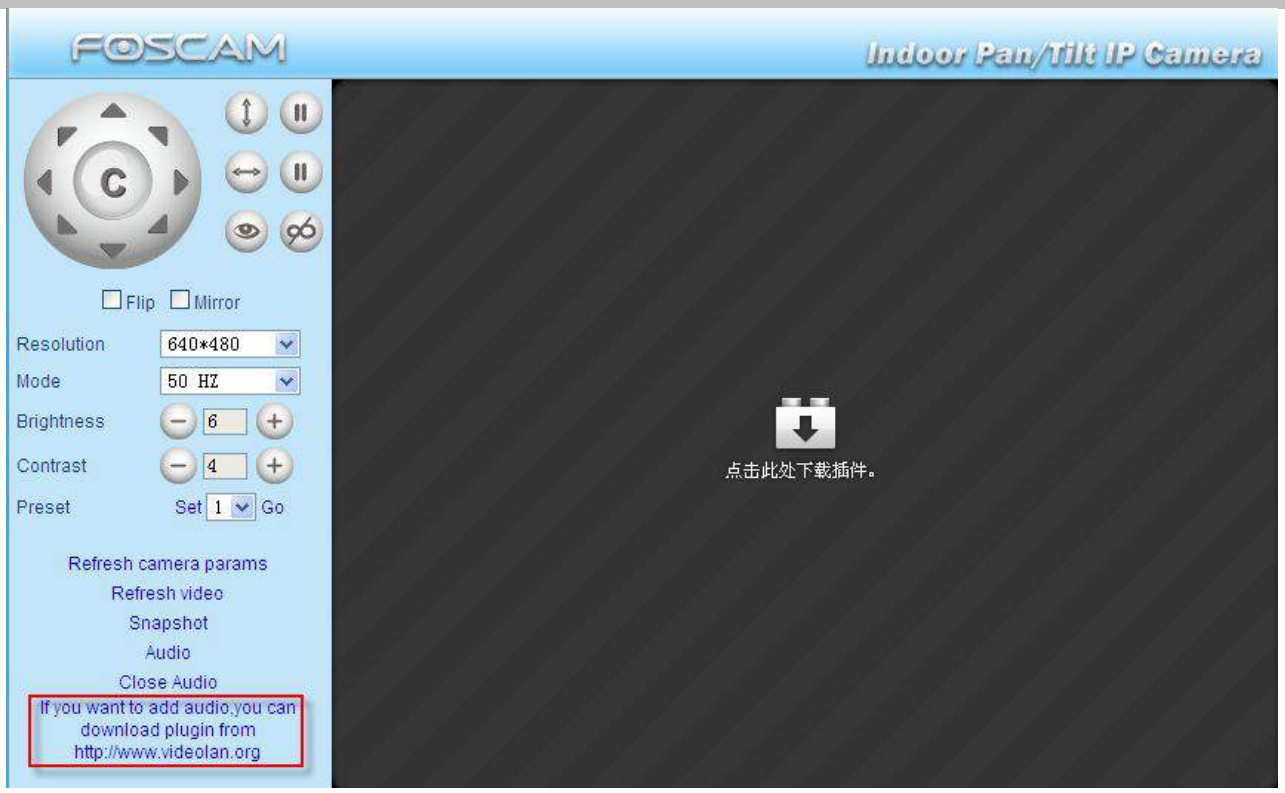


Figure 2.6

During the installation, you must select Mozilla plugin as in Figure 2.7.

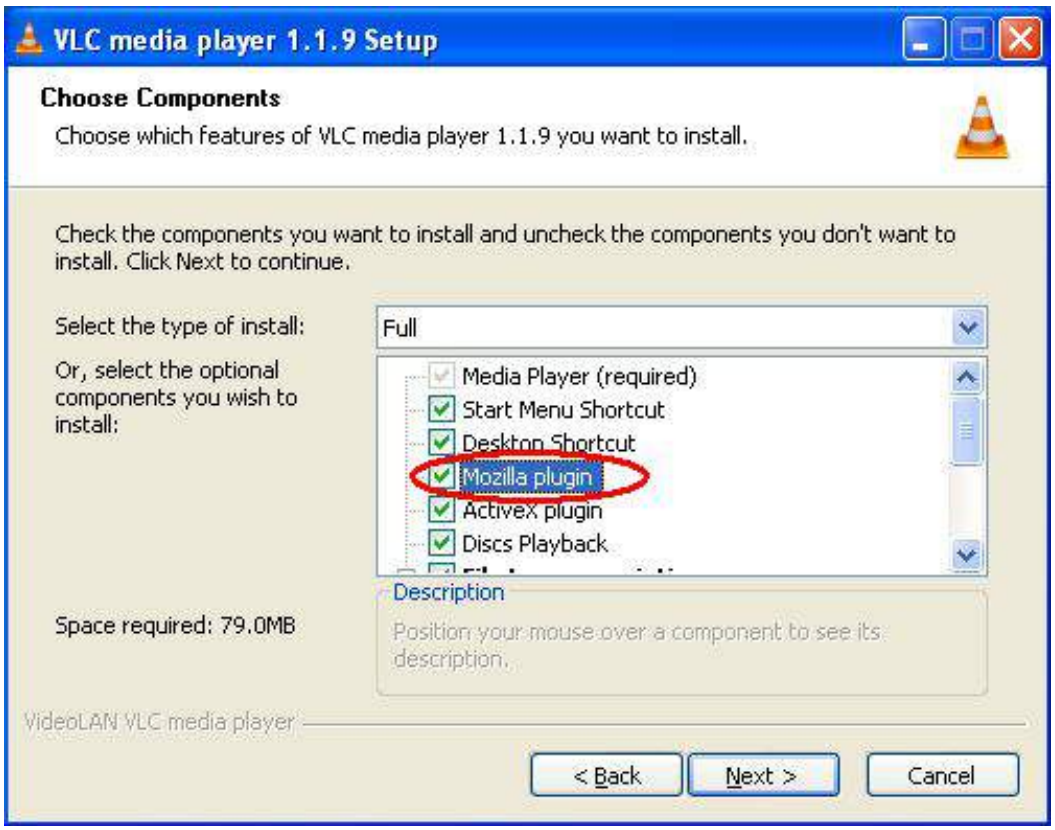

VLC media player 1.1.9 Setup
Choose Components
Choose which features of VLC media player 1.1.9 you want to install.
Check the components you want to install and uncheck the components you don't want to install. Click Next to continue.
Select the type of install:
Full
Or, select the optional components you wish to install:
Media Player (required)
Start Menu Shortcut
Desktop Shortcut
Mozilla plugin
ActiveX plugin
Discs Playback
Description
Position your mouse over a component to see its description.
Space required: 79.0MB
VideoLAN VLC media player
< Back
Next >
Cancel

Figure 2.7

3 Advanced Camera Settings

Click the bar “Device Management”, goes to Administrator Control Panel to make advanced camera settings.

3.1 Device Status

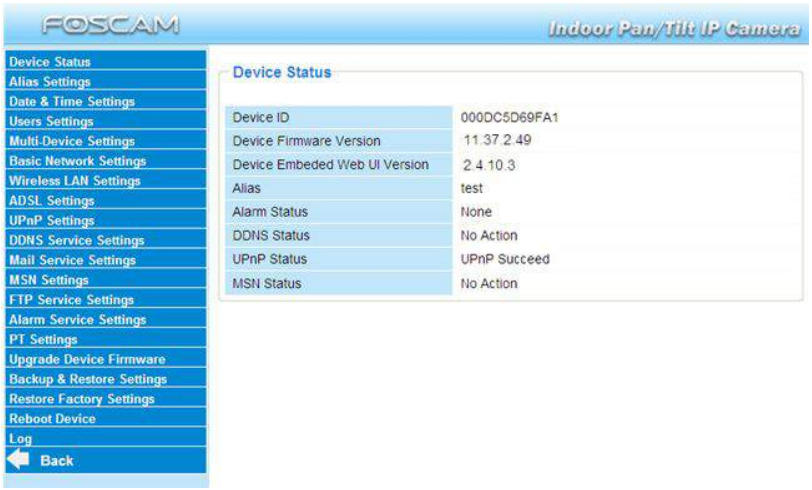


Figure 3.1

1------Device ID MAC ID of the camera by wired connection

2-----Device Firmware Version System Firmware version of the camera

3-----Device Web UI Version Web UI firmware version of the camera

4-----Alias Name of the camera

5-----Alarm Status The status of Alarm Service Setting

6-----DDNS Status The status of DDNS Setting

7-----UPnP Status The status of UPnP Setting

8-----MSN Status The status of MSN Setting

Another Way:

Double click the the icon “IP Camera.exe”

, select the camera IP, right click and select the Basic Properties, you can also see the Firmware Version and MAC Address, such as the following screen:

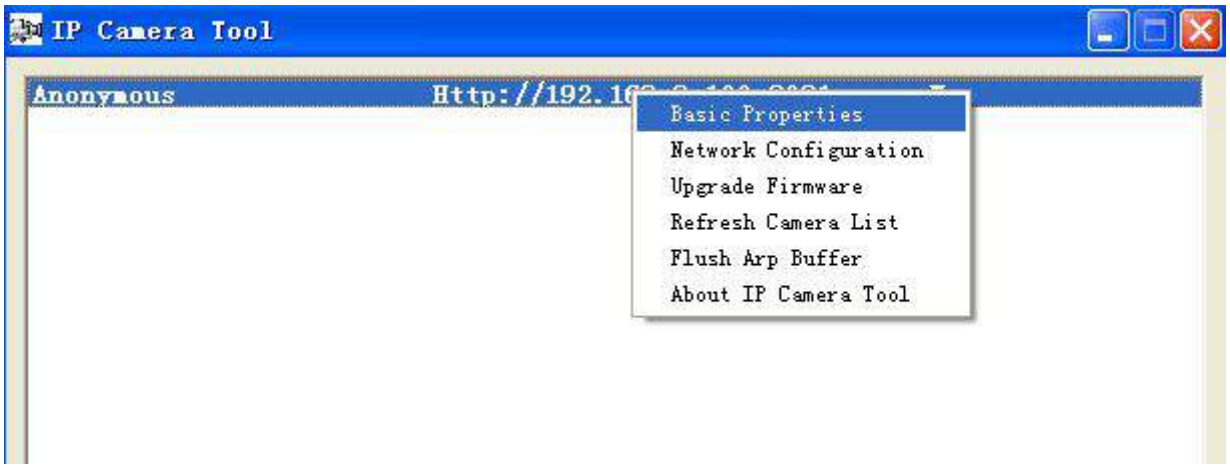


Figure 3.2

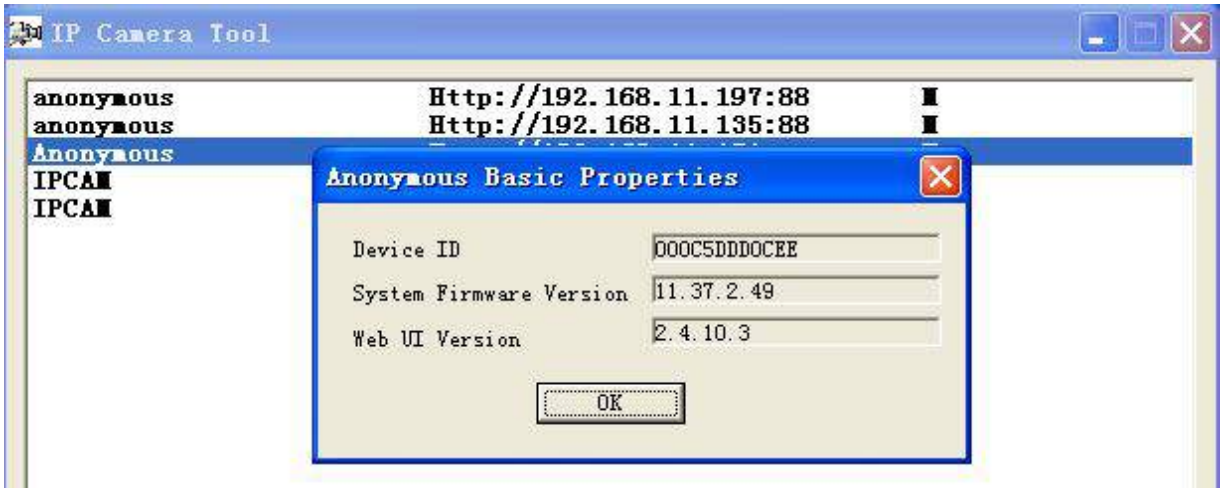


Figure 3.3

3.2 Alias Settings

Default alias is Anonymous. You can define a name for your camera here such as apple. Click **Submit** to save your changes. The alias name supports special characters.

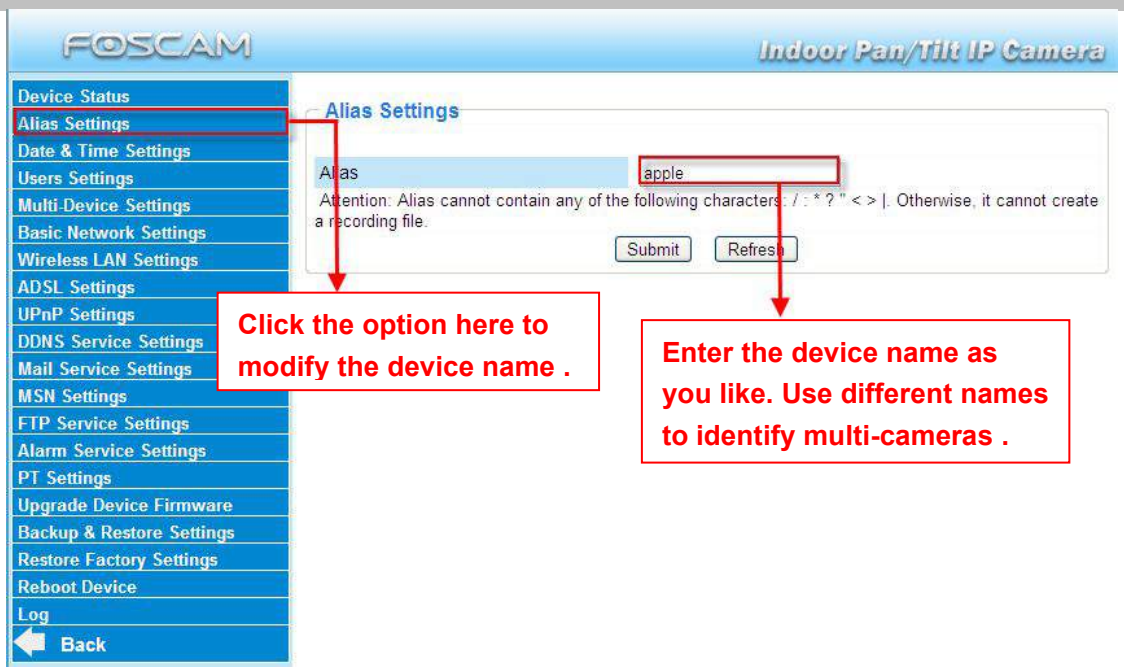


Figure 3.4

3.3 Date & Time Settings

Choose the time zone of your country. You can choose **Sync with NTP Server** or **Sync with PC Time**. If your country implements the **Daylight Saving Time**, that option can also be selected.

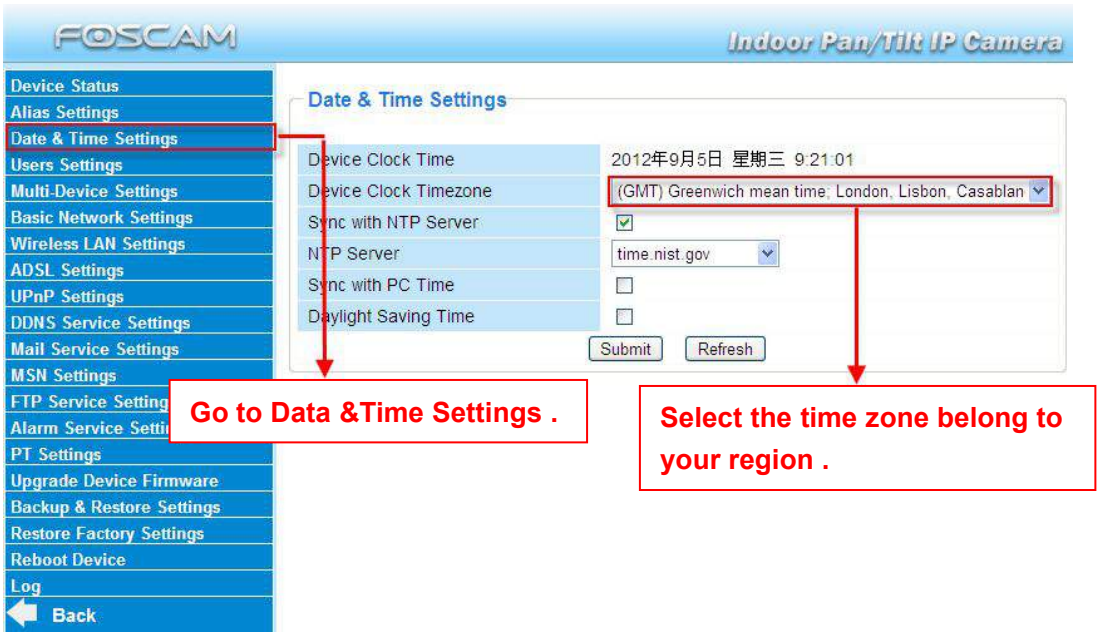


Figure 3.5

3.4 User Settings

Here you can create users and set permission levels, **visitor**, **operator** or **administrator**. Click **Submit** to save these settings. The camera will reboot.

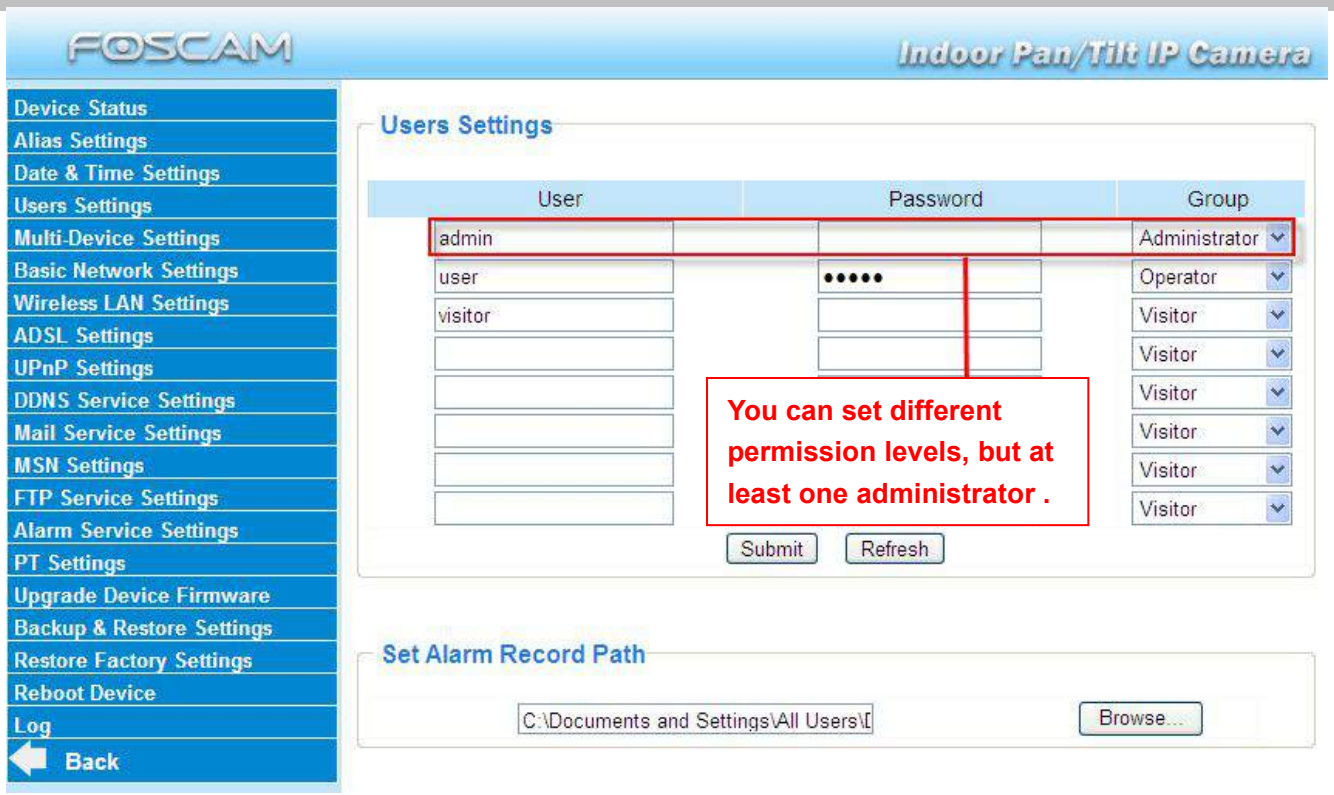


Figure 3.6

Here you can also set one important file locations for the camera, the **Alarm Record Path**. Simply click **Browse** and choose the path to the required folder.

The **Alarm Record Path** location is used to store automatically recorded files when the camera is activated by motion or sound. (See set motion/sound alarm. Figure 3.36) The default path for **Alarm Record Path** is C:\Documents and Settings\All Users\Documents.

NOTE: In Windows7 or Vista, if you cannot set the paths.:
Windows7 or Vista's security level is higher than Windows XP/2000.For "set record path" function, user should add the Device IP address to the Internet Explorer's 'Trusted sites' first. The step is: IE browser→Tool→Internet Proper→Security→Trusted sites→Sites→Add

3.5 Multi-Device Settings

If you want to view multi-surveillance screens on one window, you need to login one camera, and set it as the main device, and do Multi-Device Settings, add other cameras to the first one camera. Before you do multi-cams settings, you need to assign different port such as 81, 82, 83, 84, 85, 86, 87, 88 to the cameras if there is 8 cams installed.
The firmware within the camera can support a maximum of 9 devices monitoring all at the same time.

3.5.1 Add cameras in LAN

In Multi-Device Settings page, you can see all devices searched in LAN. The 1st Device is the

default one. You can add more cameras in the list in LAN for monitoring. The camera's software supports up to 9 IP Cameras online simultaneously. Click **The 2nd Device** and click the item in the **Device List in LAN**, the Alias, Host and Http Port will be filled in the boxes below automatically. Enter the correct username and password then click **Add**. Add more cameras in the same way. After all cameras have been added, choose **Submit**.

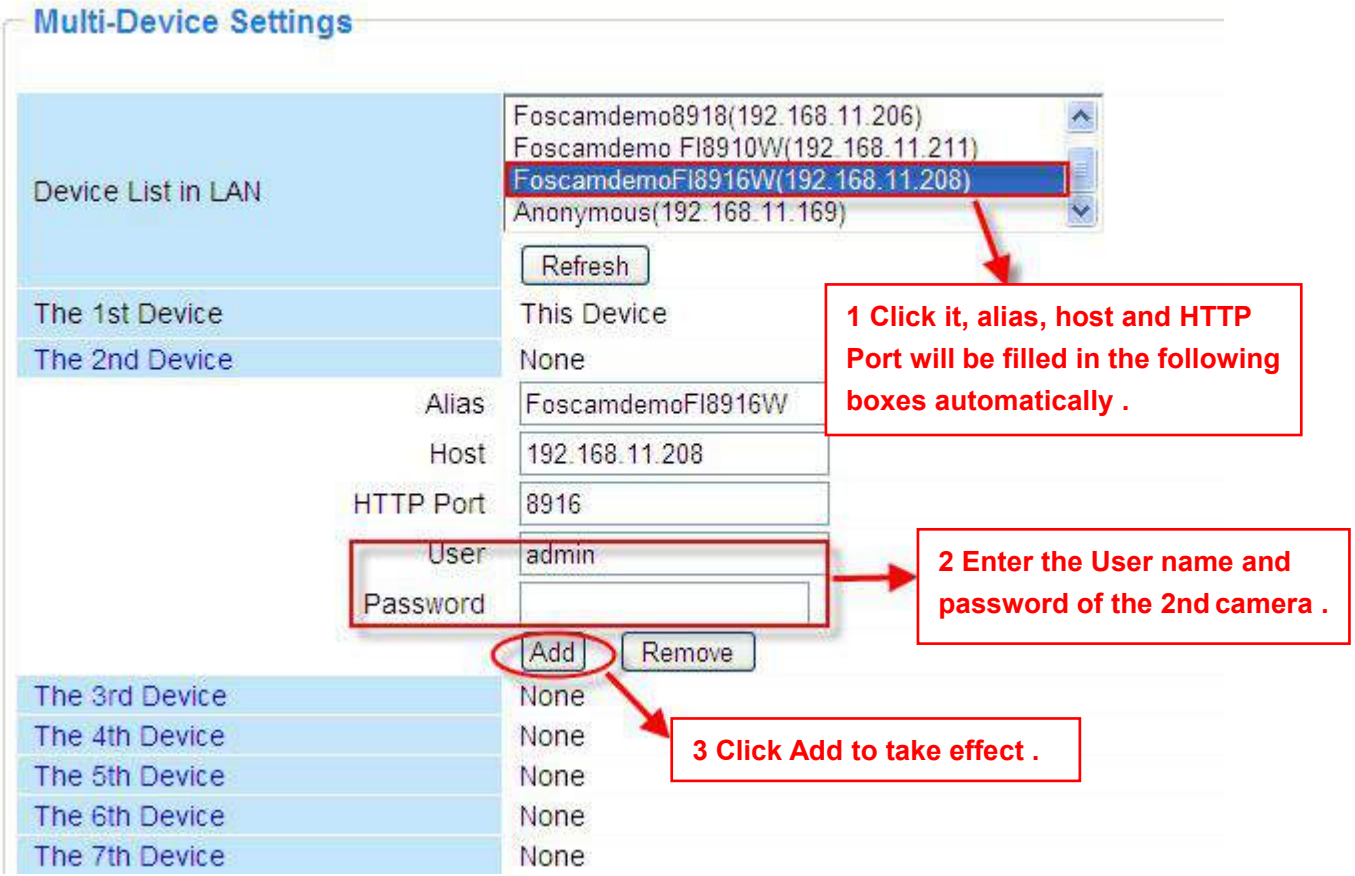


Figure 3.7a

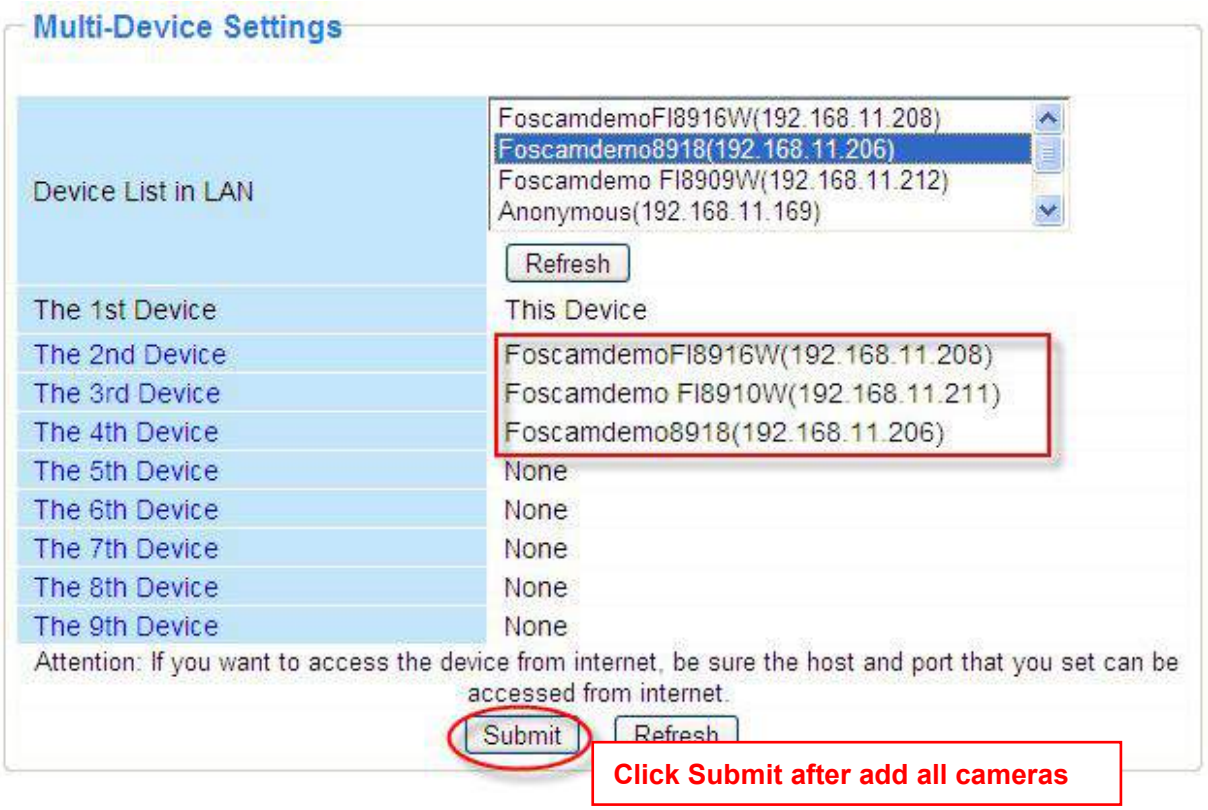


Figure 3.7b

Back to **Surveillance Windows**, and click Four Windows option, you will see four cameras you added.

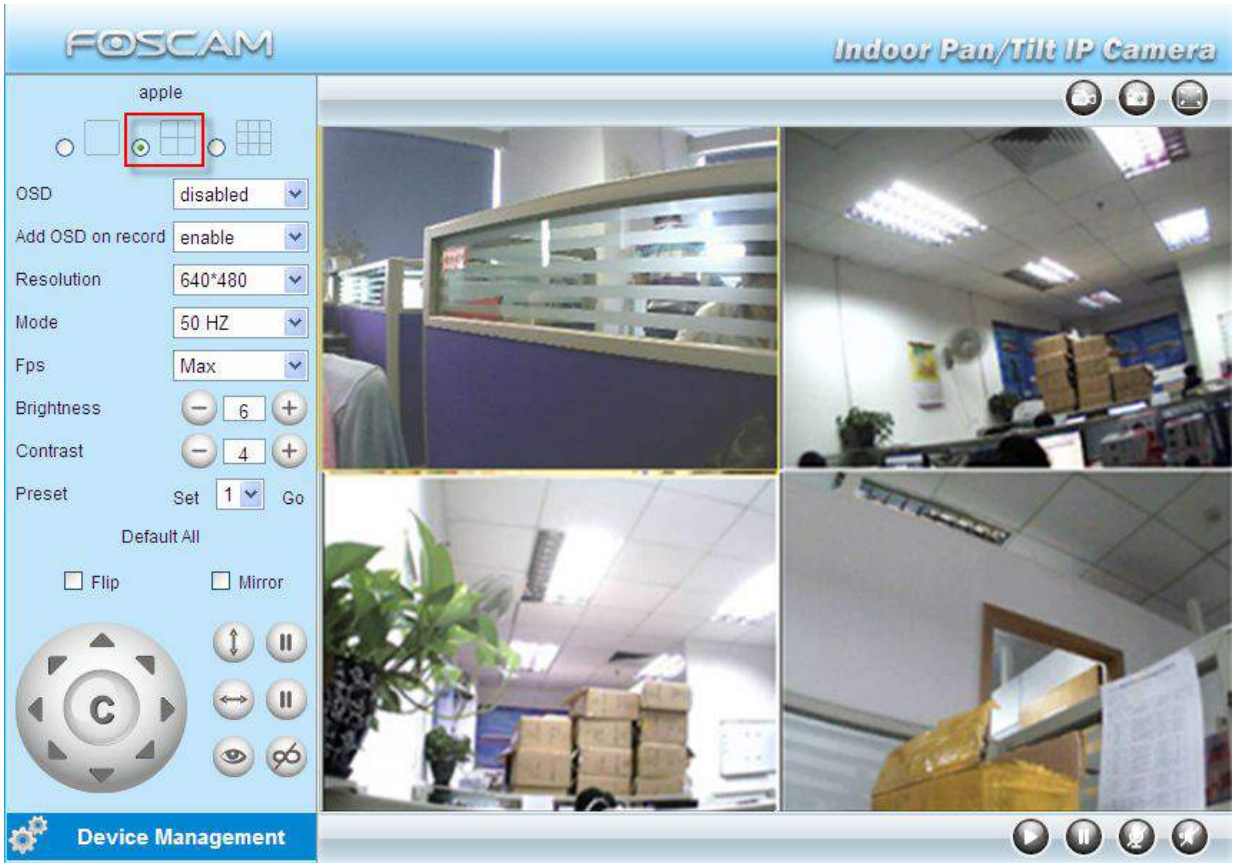


Figure 3.8

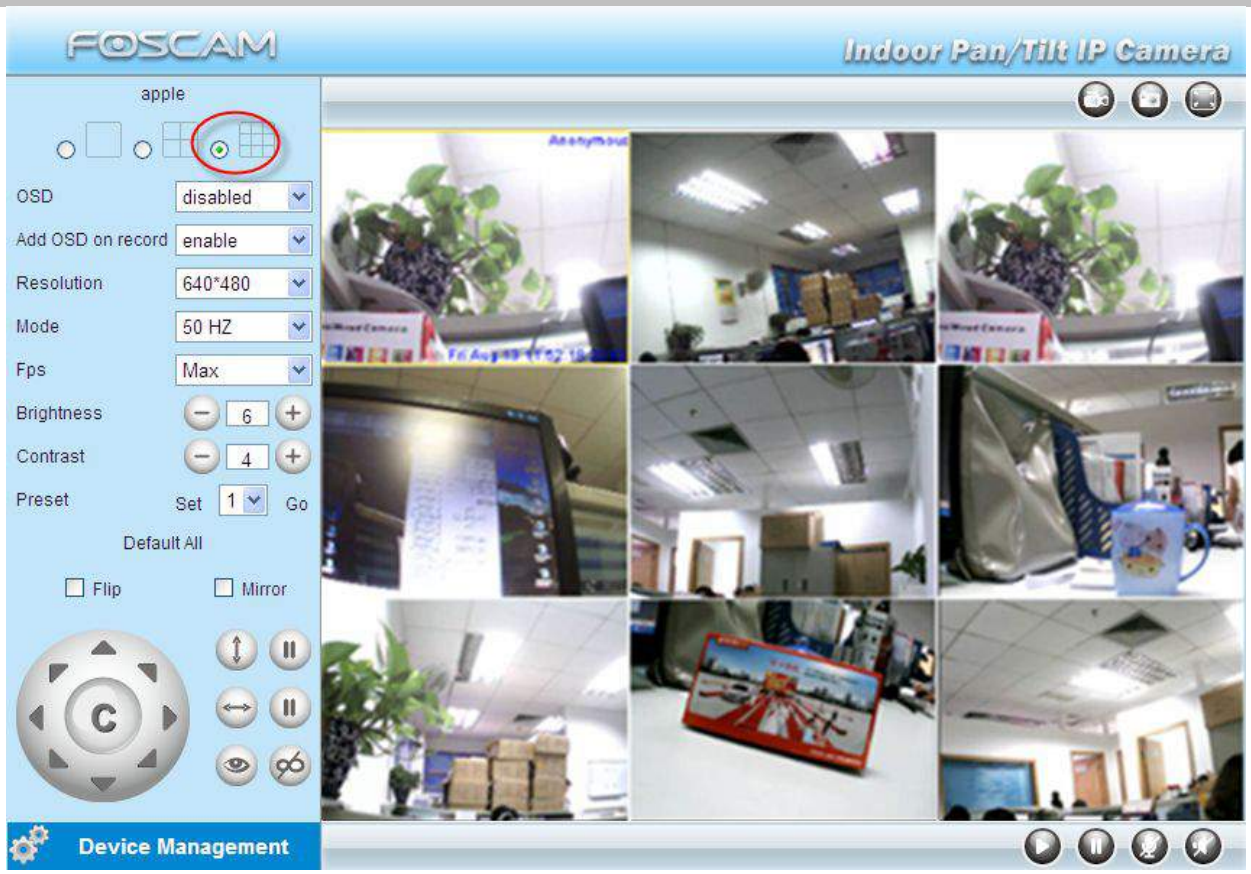


Figure 3.9

3.5.2 Add cameras in WAN

If you want to view all cameras via the internet(remote computer), you will need to add them using DDNS domain name. Firstly, make sure all of the cameras you added can be accessed through the internet. (Read **How to configure DDNS settings** in **chapter 3.10**)
Login to the first camera using a DDNS domain name and port.

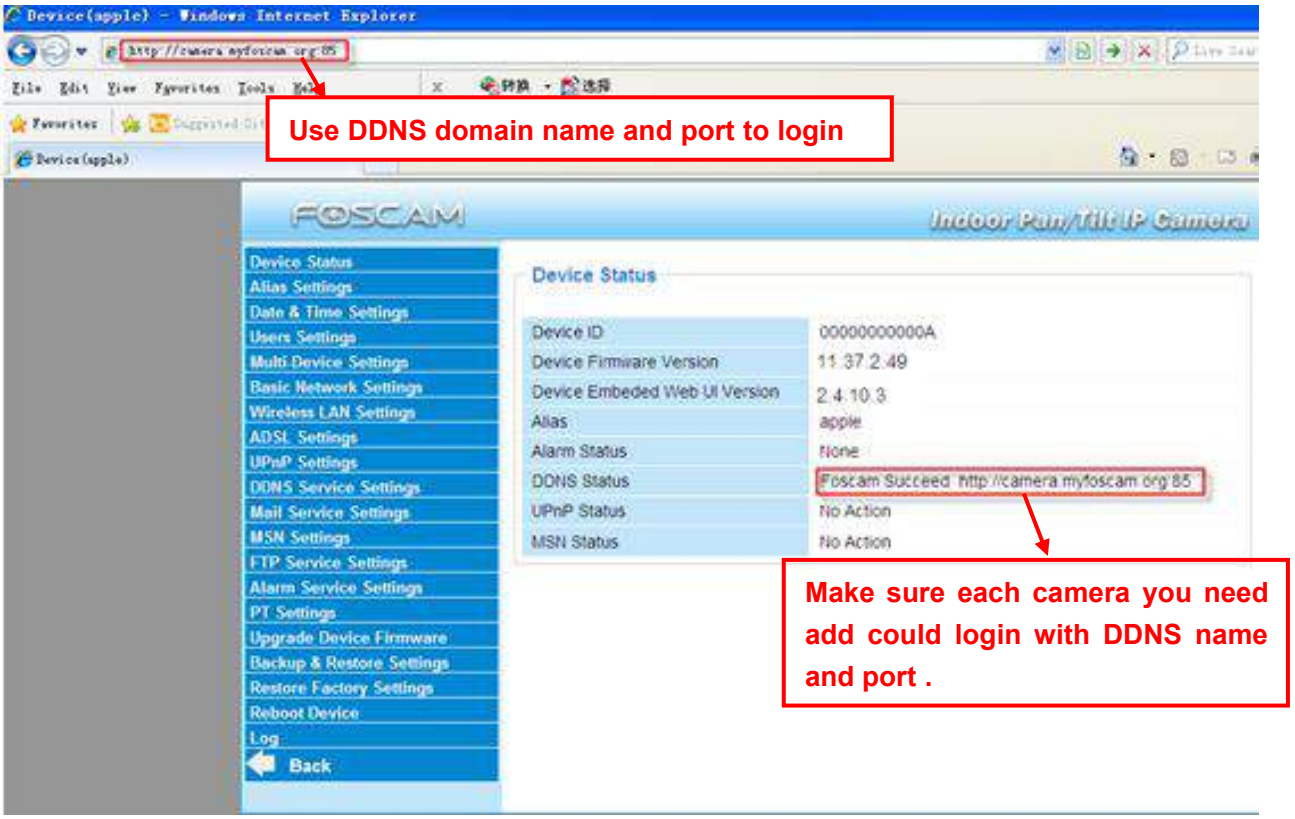


Figure 3.10

If you have several cameras, you can use the same DDNS domain name; you only need to set a different port number for each camera.
Click **Multi-Device Settings**. Choose **The 2nd Device**. Fill in the 2nd camera's name, DDNS domain name, port number. Enter user name and password and then choose Add. (Figure 3.11)

NOTE: Here the Host must be entered as the second camera's DDNS domain name, not its LAN IP.

Figure 3.11

1----- The 2nd camera's name
2----- Fill in the 2nd camera's DDNS host not LAN IP
3 ---- Enter the 2nd camera's user name and password
4---- Click Add button and to take effect

Add the other cameras in the same way. Click **Submit** to save.

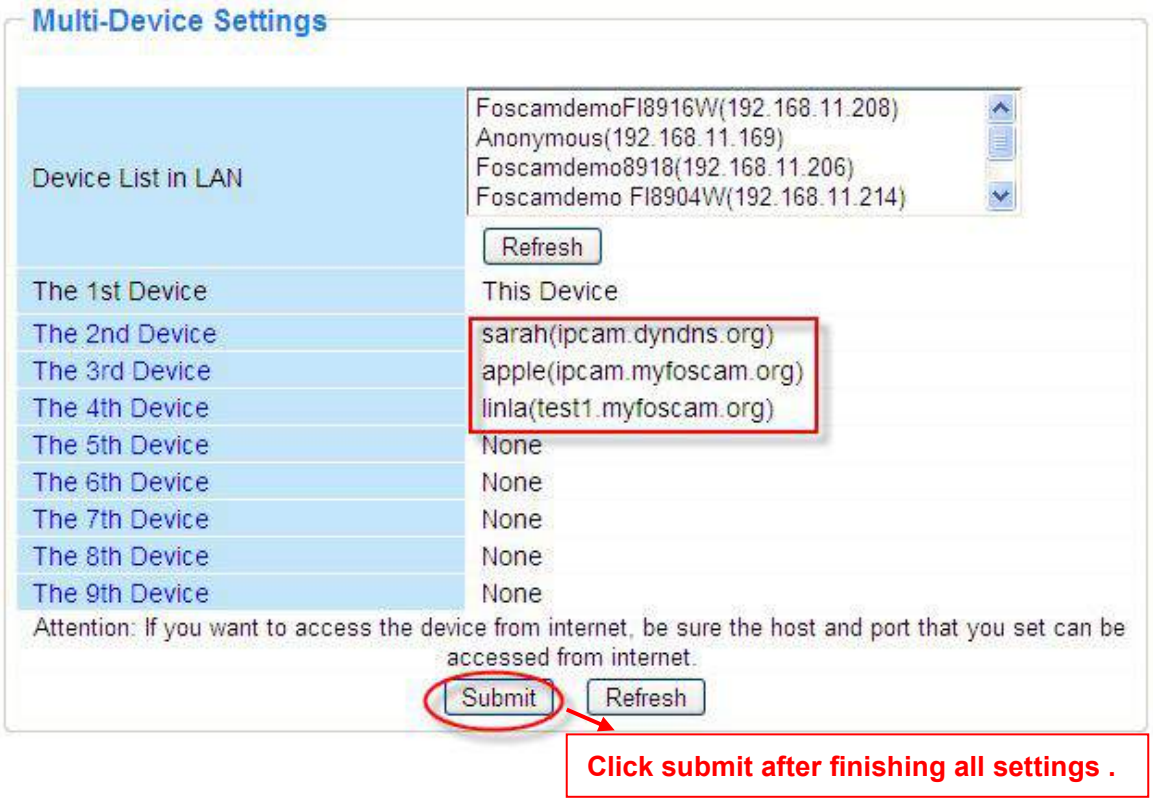


Figure 3.12

Return to video window. You will see all of the cameras accessible through the internet. When you are away from home, you can use the first camera's DDNS domain name and port to view all the cameras via internet.

Figure 3.13

3.6 Basic Network Settings

If you want to set a static IP for the camera, select **Basic Network Settings**. Keep the camera in the same subnet of your router or computer.

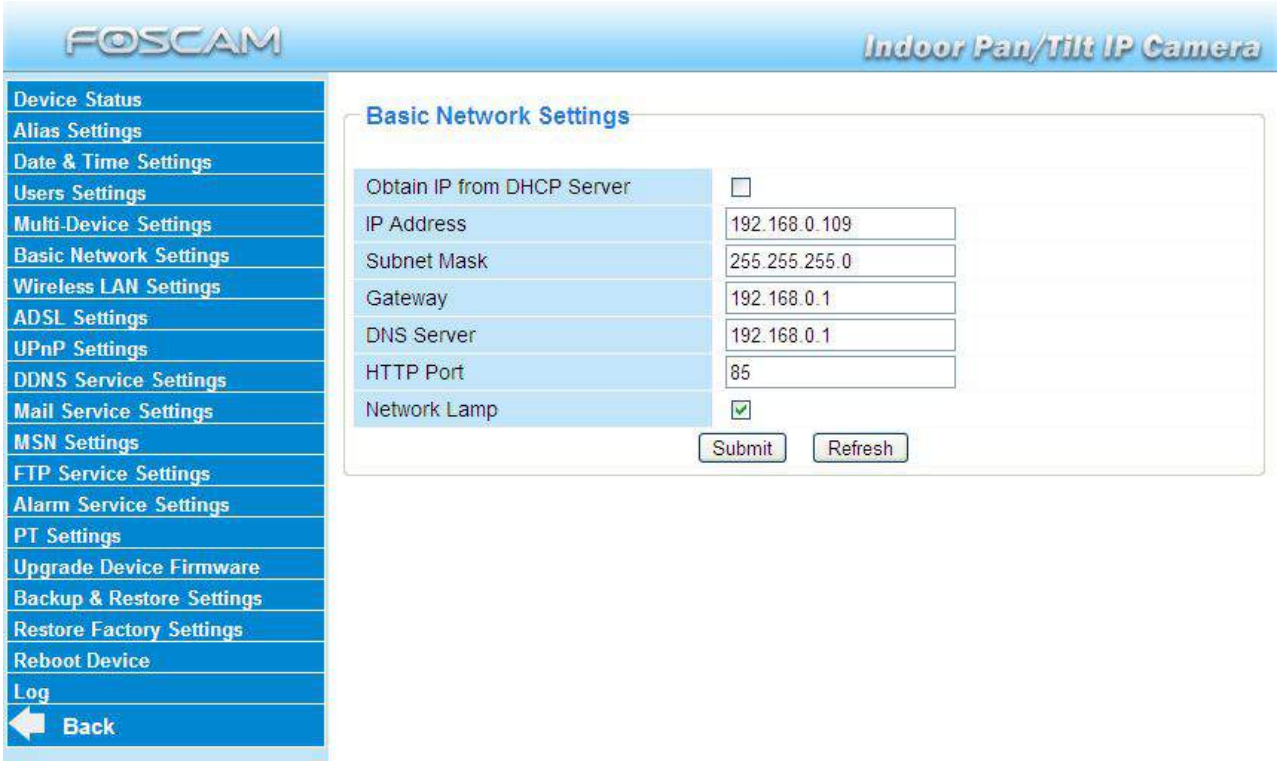


Figure 3.14

Changing settings here is the same as using the IP Camera Tool. (Figure 3.17/3.18)
It is recommended that you use the subnet mask, gateway and DNS server from your locally attached PC. If you don't know the subnet mask, gateway and DNS server, you can check your computer's local area connection as follows:
Control Panel → Network Connections → Local Area Connections → Choose **Support→Details**.

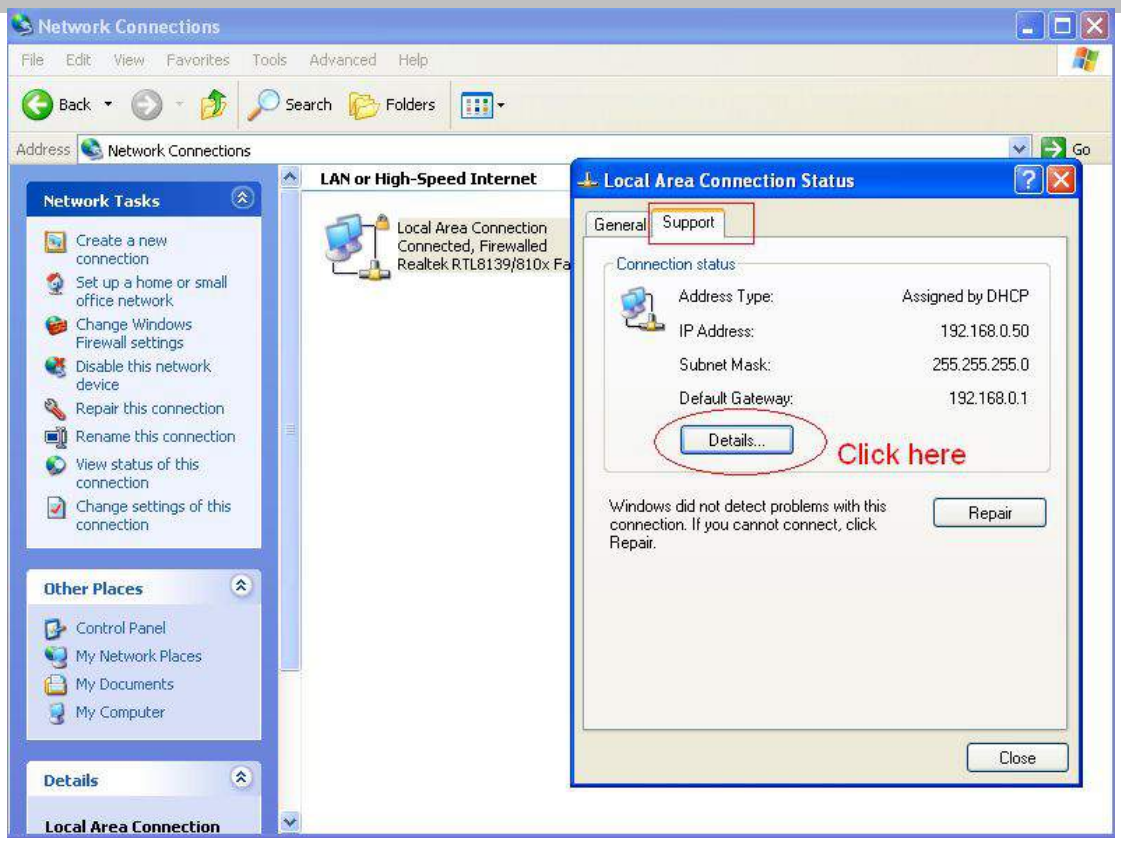


Figure 3.15

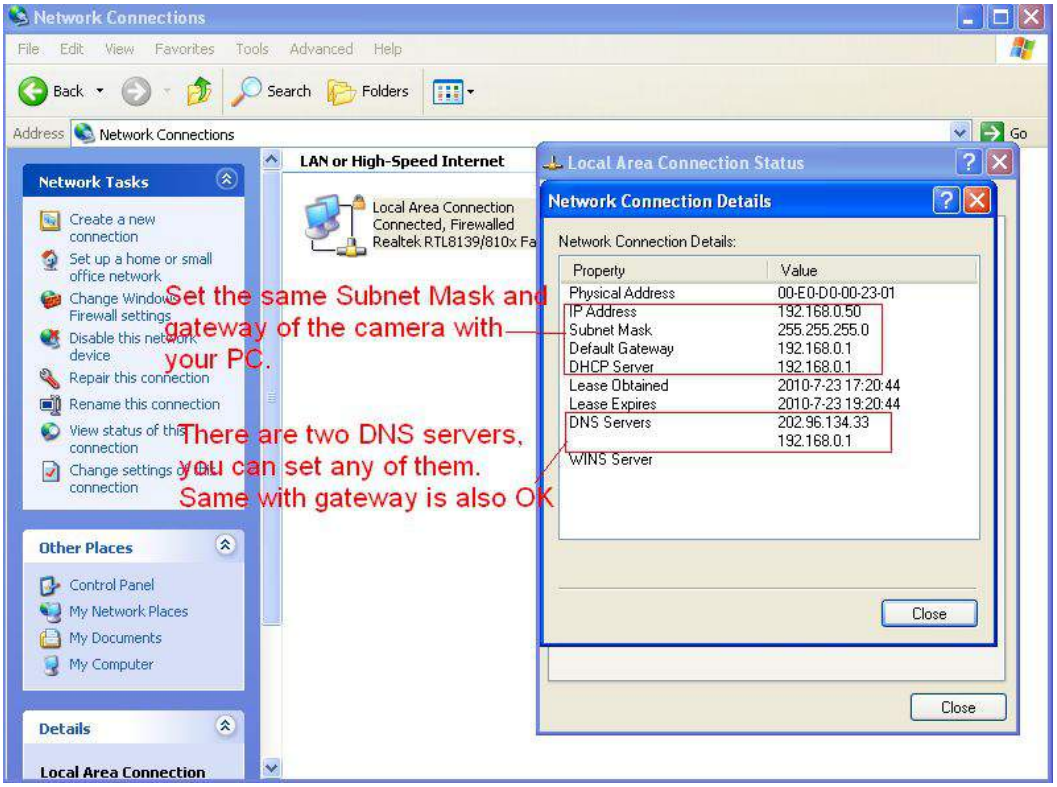


Figure 3.16

If you don't know the DNS server, you can use the same settings as the Default Gateway.

Network lamp: There is a network lamp on the back of the camera, select it and when the network connection are working, the lamp will turn on and blink.

Another way to change the camera's LAN IP and HTTP Port no.

Open the IP Camera Tool, select the camera you want to change the port no, right click on the IP address link, and goes to Option "Network Configuration", it pops up another dialogue showed as the following screen

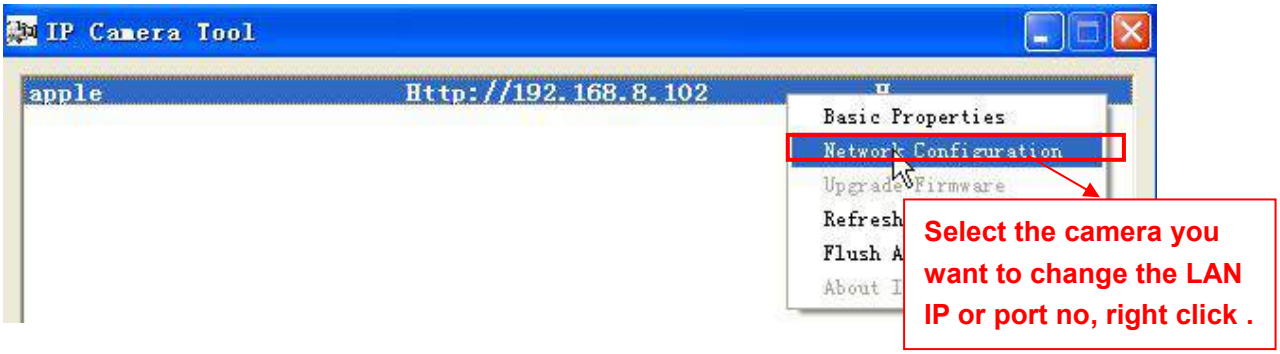


Figure 3.17

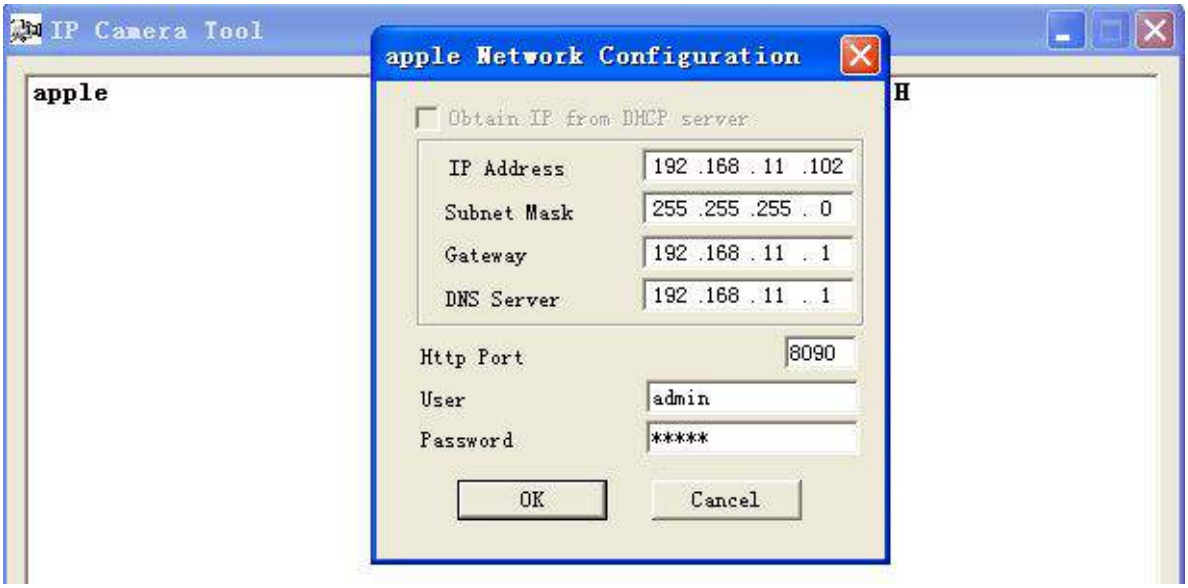


Figure 3.18

IP Address: Fill in the IP address assigned and make sure it is in the same subnet as your computer or router. (I.e. the first three sections are the same)

Subnet Mask: The default subnet mask of the equipment in our LAN is: 255.255.255.0.You can find the subnet mask in the basic information of your router or the locally-attached of your PC.

Gateway: Make sure it is in the same subnet with PC's IP address. The gateway is your router's LAN IP.

DNS Server: IP address of your ISP network provider. You can find the DNS server in your router or check the locally-attached address of your computer. Your PC contains your PC's IP address, gateway and DNS server. Normally, there are two DNS servers. Here you can also set the DNS server the same with gateway.

Http Port: The default Lan port is 80.You can set another port number, such as port 8005, 8100.etc.

User&Password: Default administrator user name is admin with no password.
NOTE:
If the prompt “Subnet doesn’t match, dbclick to change!” appears, please enable DHCP set camera’s IP address and gateway once again.

3.7 Wireless Settings

The network camera is POE-compliant, allowing transmission of power and data via a single network cable, so here cannot allow to use Wireless function.

3.8 ADSL

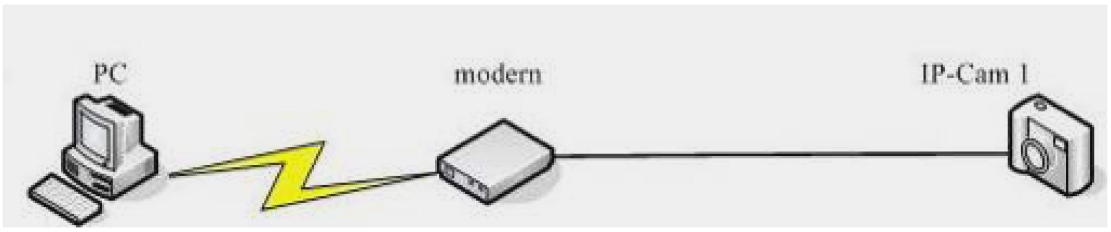


Figure 3.19

If you are connecting the camera directly to a ADSL modem, you can do ADSL settings with your ADSL account &password provided by the ISP, then make the camera connected to the network.

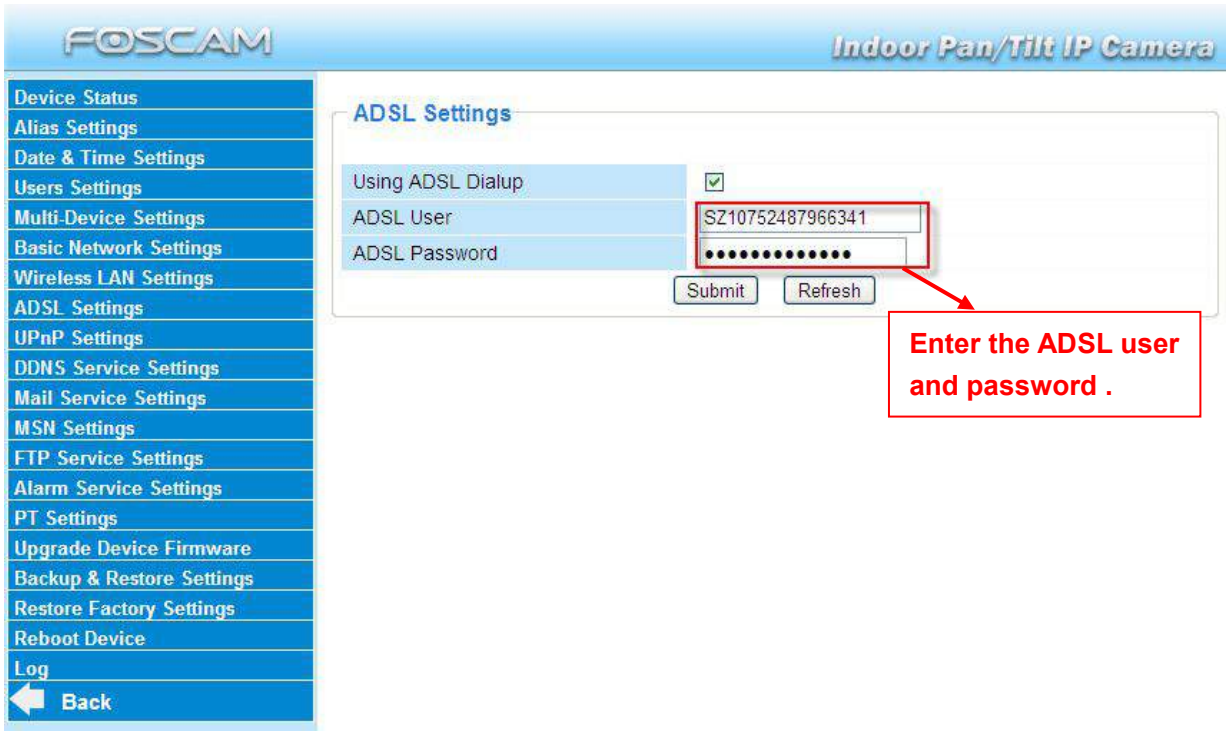


Figure 3.20